



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application Serial No. .... 09/966,158  
Filing Date ..... September 28, 2001  
Inventor ..... Yuichi Iikubo et al.  
Assignee ..... PCBU Service, Inc.  
Group Art Unit..... 1621  
Examiner ..... Elvis P. Price  
Attorney's Docket No. .... PC3-010 (GRLK-003)  
Title: ..... Processes for Producing CF<sub>3</sub>CFHCF<sub>3</sub> (as amended)

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

References –See Attached Form PTO-1449

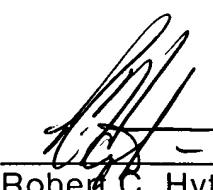
The attached Form PTO-1449 is submitted in compliance with 37 C.F.R. §§ 1.56, 1.97 and 1.98. Pursuant to Federal Register Vol. 69, No. 182, pg. 56542 (September 21, 2004), no copies of any cited U.S. patents or U.S. published applications are included herewith. Copies of all other cited art are attached. No admission is made regarding whether the submitted references are prior art.

This Supplemental Information Disclosure Statement is being filed after receipt of a Notice of Allowance. Therefore, no fee is believed to be required. However, in the event that a fee is required, please charge the fee specified under 37 C.F.R. § 1.17(p) to Deposit Account No. 23-0925.

Citation of these references is respectfully requested.

Respectfully submitted,

Dated: 1/18/06

By:   
\_\_\_\_\_  
Robert C. Hyta  
Reg. No. 46,791

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
PC3-010SERIAL NO.  
09/966,158LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT: Yuichi likubo, et al

FILING DATE  
September 28, 2001GROUP  
1621

## U.S. PATENT DOCUMENTS

*Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	1,132,636	03/1915	Taylor et al			
	AB	1,926,395	09/1933	T. Midgley, Jr.			
	AC	1,926,396	09/1933	Midgley, Jr.			
	AD	2,021,981	11/1935	Bichowsky			
	AE	2,413,696	01/1947	Downing et al			
	AF	3,080,430	03/1963	Cohen			
	AG	3,479,286	11/1969	Clun et al			
	AH	3,656,553	04/1972	Rainaldi et al			
	AI	3,715,438	02/1973	Huggett			
	AJ	3,822,207	07/1974	Howard et al			
	AK	3,844,354	10/1974	Larsen			
	AL	4,014,799	03/1977	Owens			
	AM	4,226,728	10/1980	Kung			
	AN	4,446,923	05/1984	Martin			
	AO	4,459,213	04/1972	Uchida et al			
	AP	4,536,298	08/1985	Kamei et al			
	AQ	4,810,403	03/1989	Bivens et al			
	AR	4,826,610	05/1989	Thacker			
	AS	4,851,595	07/1989	Gumprecht			
	AT	4,937,398	06/1990	Tung et al			
	AU	4,945,119	07/1990	Smits et al			
	AV	4,954,271	09/1990	Green			

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-010	SERIAL NO. 09/966,158		
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT: Yuichi likubo, et al			
				FILING DATE September 28, 2001	GROUP 1621		
<b>U.S. PATENT DOCUMENTS</b>							
*Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AW	5,040,609	08/1991	Dougherty et al			
	AX	5,084,190	01/1992	Fernandez			
	AY	5,141,654	08/1992	Fernandez			
	AZ	5,562,861	10/1996	Nimitz et al			
	BA	5,730,894	03/1998	Minor			
	BB	6,065,547	05/2000	Ellis et al			
	BC	6,346,203 B1	02/2002	Robin et al			
	BD	6,461,530	10/2002	Robin et al			
	BE	6,478,979	11/2002	Rivers et al			
	BF	6,763,894	07/2004	Schoenrock et al			
	BG	6,849,194	02/2005	Robin et al			
EXAMINER		DATE CONSIDERED					
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. PC3-010		SERIAL NO. 09/966,158	
		LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)			APPLICANT: Yuichi Iikubo, et al			
					FILING DATE September 28, 2001		GROUP 1621	
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AA	CA 902590A	08/1962	Canada				
	AB	EP 0039471 A1	11/1981	Europe				
	AC	EP 0 383 443 A2	08/1990	Europe				
	AD	EP 0 481 618 A1	04/1992	Europe				
	AE	EP 0 570 367 B1	11/1993	Europe				
	AF	RU 2068718 C1	08/1990	Russia				
	AG	1546505	09/1970	Germany				
	AH	WO 91/02564	03/1991	WIPO				
	AI	WO 91/04766	04/1991	PCT				
	AJ	WO 91/12853	09/1991	PCT				
	AK	WO 93/24586	12/1993	PCT				
	AL	WO 96/40834	12/1996	PCT				
	AM	GB 1,132,636	11/1968	Great Britain				
	AN	JP 51034595	09/1974	Japan				
	AO	JP 57-93070-A	06/1982	Japan				
	AP	Laid Open Hei 1-115999	05/1989	Japan				
	AQ	Sho 50-50864 (Laid Open Sho 51-131100)	04/1975	Japan				
	AR	Laid Open Hei 4-96770	03/1992	Japan				
	AS	Sho 52-25679	07/1977	Japan				
	AT							
EXAMINER		DATE CONSIDERED						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. PC3-010	SERIAL NO. 09/966,158
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Yuichi likubo, et al	
		FILING DATE September 28, 2001	GROUP 1621

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vol. 23, No. 10, pp. 1203-1207	
	AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents", August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> , pp. i-90.	
	AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destroying Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> , pp. 1-11	
	AD	Wuebbles, Donald J., "Chlorocarbon Emission Scenarios: Potential Impact on Stratospheric Ozone", February 1983, <i>Journal of Geophysical Research</i> , Vol. 88, No. C2, pp. 1433-1443	
	AE	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methanes and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , 1982, 86, 2672-2676	
	AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Report of the Halons Technical Options Committee", June 1989, Draft for Peer Review	
	AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogens Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> , pp. 376-402	
	AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing", 1955, <i>National Advisory Committee for Aeronautics</i> , Technical Note 3565, pp. 1-30	
	AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly- and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt University in Berlin</i> , Vol. 10, pp. 1-22 (translated)	
	AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing", 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8	
	AK	Smart, B.E., "Fluorocarbons", 1983, <i>The Chemistry of Functional Groups</i> , Supplement D, Chapter 14, pp. 603-655	
	AL	Chemical Encyclopedia, "Bolshaya Rossiiskaya Entsiklopedia" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol	
	AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Final Report of the Halons - Technical Options Committee", August 1989	
	AN	Reid, Robert C., "The properties of gases and liquids", 1987, pp. 153-157	
	AO	"Part IV The Evolution of the Montreal Protocol", 1987, Section 4.1 and 4.2, pp. 265-275	
	AP	Hynes, Robert G., et al., "Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule CF <sub>3</sub> CHFCF <sub>3</sub> ", 1999, <i>J. Phys. Chem. A</i> , Vol. 103, pp. 54-61	
	AQ	Joint Assessment of Commodity Chemicals No. 24, <i>Pentafluoroethane (HFC 125)</i> , (ECETOC) May 1994, pp. 14-20	
	AR	Kubota, Kazuo, "Current State and Measures Related to Chlorofluorocarbon Regulations, Part I", 1989, <i>Valqua Review</i> , Vol. 33, No. 2, pp. 1-8 (English translation – pp. 1-18)	
	AS	Malcolm, J.E., "Halogenated Extinguishing Agents", Part II Research at the Corps of Engineers' Laboratories, 1951, <i>NFPA Quarterly</i> , pp. 119-131	
	AT	Nelson, Thomas P., "Findings of the Chlorofluorocarbon Chemical Substitutes International Committee", April 1988, <i>U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory</i> , EPA/600/9-88/009, pp. i-K6	
	AU	Smart, Bruce E., <i>Fluorinated Organic Molecules</i> , 1986, Molecular Structure and Energetics, Vol. 3, pp. 141, 152	
	AV	Tominaga, Takeshi, "Global and Technical Countermeasures Against Flon", 1989, <i>The Nikkan Kogyo Shinbun, Ltd.</i> , pp. 134-137, 156-163, 170-174 (English translation)	
EXAMINER		DATE CONSIDERED	
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>			

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-010	SERIAL NO. 09/966,158
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Yuichi Iikubo, et al			
		FILING DATE September 28, 2001	GROUP 1621		
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
	AW	Index to Decisions and Annexes of the Parties to the Montreal Protocol, Helsinki Meeting, p. 79, 128, 241, 1989.			
	AX	Marshal Sittig, Chemical Process Monograph No. 22, Fluorinated Hydrocarbons and Polymers, 1966, page 13.			
	AY	McLinden, Ph.D, Didion, Ph.D, "Quest for Alternatives", Ashrae Journal, December 1987, pgs. 69-78.			
	AZ	Burns et al, "Fluorine Compounds in Anaesthesia" Anaesthesia, 1982, Vol. 37, pp. 278-284.			
	BA	"The Halogenated Extinguishing Agents", Fire Protection Handbook, Fourteenth Edition, National Fire Protection Association, Boston, Section 13, Chapter 4, pp. 13-20 to 13-26			
	BB	National Fire Protection Association, NFPA 2001 "Clean Agent Fire Extinguishing Systems" pps. 2001-1 and 2001-14			
	BC	Journal of Fluorine Chemistry, 2000 "Fire extinguishing ability of perfluoroalkylamines and perfluoroethers....", Fukaya et al., pps. 143-146			
	BD	Creitz, Journal of Research of the National Bureau of Standard, 1961.			
	BE	Simons, Fire Extinguishing Agents, in H.G. Bryce, Industrial Aspects of Fluorine Chemistry, at pages 354-358, Vol. 5 of Hudlicky, Milos, Chemistry of Organic Fluorine Compounds (1962).			
	BF	R. Hirst and K. Booth, Measurement of Flame-Extinguishing Concentrations, Fire Technology, Vol. 13(4): 296-315 (1977).			
	BG	Final Report on Extinguishing Agents for the Period September 1, 1947 to June 30, 1950 Covering Research Conducted by Purdue Research Foundation and the Department of Chemistry, Purdue University, Contract W-44-009-engr 507, Army Engineers Research and Development Laboratories, Fort Belvoir.			
	BH	Research at the Corps of Engineers Laboratories, Halogenated Extinguishing Agents, NFPA Quarterly pgs. 118-131, (October, 1951).			
	BI	Decision of the Technical Board of Appeal Regarding European Patent No. 0439579, November 14, 2001.			
	BJ	Banks, Findings of the Chlorofluorocarbon Chemical Substitutes International Committee, Appendix A: summary Report A-1-A-5, 05/1987.			
	BK				
EXAMINER		DATE CONSIDERED			
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>					